What is claimed is:

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1. A digital camera that captures object light and generates an image signal, comprising:

a taking lens having a variable focal length and comprising three or more lens groups including a front lens group, which is disposed forward along an optical axis;

a lens barrel that has an inner space for housing the taking lens and is capable of being extended or collapsed, the inner space having an opening for the front lens group to see the outside on the front thereof and being defined by a wall at the rear thereof, and the focal length being adjusted when the lens barrel is extended; and

a solid-state image pickup device that receives object light focused by the taking lens and generates an image signal, the solid-state image pickup device being supported on the wall,

wherein the lens barrel has a lens group retraction/advancement mechanism which, when the lens barrel is collapsed, retracts a first lens group into a front lens group side space and retracts a second lens group into a recess section, which is defined by the solid-state image pickup device and the wall in a space at the side of the solid-state image pickup device, and, when the lens barrel is extended, advances both the first lens group and the second lens group onto the optical axis, the first lens group being one of the three or more lens groups constituting the taking lens which is other than the front lens group, and the second

lens group being one other than the front lens group and the first lens group.

2. The digital camera according to claim 1, wherein the lens 5 barrel comprises:

a first lens group guiding frame that moves along the optical axis and positions the first lens group along the optical axis;

a first lens group holding frame that holds the first

lens group, is pivotally supported on the first lens group

guiding frame, rotates the first lens group to bring the first

lens group onto the optical axis when the lens barrel is

extended and rotates the first lens group to bring the first

lens group into the front lens group side space when the lens

barrel is collapsed;

a second lens group guiding frame that moves along the optical axis and positions the second lens group along the optical axis; and

a second lens group holding frame that holds the second
lens group, is pivotally supported on the second lens group
guiding frame, rotates the second lens group to bring the
second lens group onto the optical axis when the lens barrel
is extended and rotates the second lens group to bring the
second lens group into the recess section when the lens barrel
is collapsed.

3. The digital camera according to claim 2, wherein centers of rotation of the first lens group holding frame and the

second lens group holding frame with respect to the first lens group guiding frame and the second lens group guiding frame, respectively, are located on opposite sides of the optical axis.

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4. The digital camera according to claim 2, further comprising:

a light quantity controlling member that is housed in the lens barrel, moves integrally with the first lens group along the optical axis of the taking lens and controls the quantity of object light passing through the taking lens,

wherein the first lens group holding frame retracts the light quantity controlling member integrally with the first lens group into the front lens group side space when the lens barrel is collapsed and advances the light quantity controlling member integrally with the first lens group onto the optical axis when the lens barrel is extended.

5. The digital camera according to claim 2, further 20 comprising:

a light quantity controlling member that is housed in the lens barrel, moves integrally with the second lens group along the optical axis of the taking lens and controls the quantity of object light passing through the taking lens,

wherein the second lens group holding frame retracts the light quantity controlling member integrally with the second lens group into the recess section when the lens barrel is collapsed and advances the light quantity controlling member

integrally with the second lens group onto the optical axis when the lens barrel is extended.

- 6. The digital camera according to claim 4, wherein the light quantity controlling member comprises an electrooptic element.
- The digital camera according to claim 5, wherein the light quantity controlling member comprises an electrooptic
 element.
 - 8. The digital camera according to claim 4, wherein the light quantity controlling member is a diaphragm member that controls the aperture to control the quantity of object light passing through the taking lens.

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- 9. The digital camera according to claim 5, wherein the light quantity controlling member is a diaphragm member that controls the aperture to control the quantity of object light passing through the taking lens.
- 10. The digital camera according to claim 4, wherein the light quantity controlling member is a shutter member that controls the shutter speed to control the quantity of object light passing through the taking lens.
- 11. The digital camera according to claim 5, wherein the light quantity controlling member is a shutter member that

controls the shutter speed to control the quantity of object light passing through the taking lens.

12. The digital camera according to claim 2, further 5 comprising:

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a first light quantity controlling member that is housed in the lens barrel, moves integrally with the first lens group along the optical axis of the taking lens and controls the quantity of object light passing through the taking lens; and

a second light quantity controlling member that moves integrally with the second lens group along the optical axis and controls the quantity of object light passing through the taking lens,

wherein, when the lens barrel is collapsed, the first lens group holding frame retracts the first light quantity controlling member integrally with the first lens group into the front lens group side space, and the second lens group holding frame retracts the second light quantity controlling member integrally with the second lens group into the recess section, and, when the lens barrel is extended, the first lens group holding frame advances the first light quantity controlling member integrally with the first lens group onto the optical axis of the taking lens, and the second lens group holding frame advances the second light quantity controlling member integrally with the second lens group onto the optical axis.

- 13. The digital camera according to claim 12, wherein at least one of the first and second light quantity controlling members comprises an electrooptic element.
- 14. The digital camera according to claim 12, wherein at least one of the first and second light quantity controlling members is a diaphragm member that controls the aperture to control the quantity of object light passing through the taking lens, and the other of the first and second light quantity controlling members is a shutter member that controls the shutter speed to control the quantity of object light passing through the taking lens.
- 15. The digital camera according to claim 1, wherein the
 15 taking lens is a three-group taking lens comprising the front
 lens group, a rear lens group and a focusing lens arranged
 in this order from the front along the optical axis, has a
 variable focal length and adjusts the focus by displacing
 the focusing lens, the rear lens group constitutes the first
 20 lens group, and the focusing lens constitutes the second lens
 group.
- 16. The digital camera according to claim 1, wherein the taking lens is a three-group taking lens comprising the front lens group, a rear lens group and a focusing lens arranged in this order from the front along the optical axis, has a variable focal length and adjusts the focus by displacing the focusing lens, the focusing lens constitutes the first

lens group, and the rear lens group constitutes the second lens group.